

GOUJON'S COMET.

MARKREE.

With the Meridian Circle.

{ E. J. Cooper, Esq.
& A. Graham.

1849.	Greenwich M.T.			R.A.			Decl.	No. of Wires.
	h	m	s	h	m	s		
April 25	9	21	2.4	11	2	18.31	+ 7 22 14.1	7
26		16	53.2		2	4.90	10 39 42.6	7
27		12	57.6		1	54.79	13 51 38.5	5
28	9	8	45.1	11	1	48.58	+ 16 56 25.8	7

Corrected for parallax by Weyer's elements.

" These observations cannot be depended on: even with dark field and illuminated wires, the comet was very faint.

With the large Equatoreal.

1849.	Greenwich M.T.			R.A.			Decl.	Relative Weights.	Star of Comp.
	h	m	s	h	m	s			
April 24	12	1	40.2	11	2	34.69	+ 4 22 14.7	2.67	<i>a</i>
25	11	6	48.2	11	2	18.35	7 37 7.0	3.75	<i>b, c</i>
26	10	48	33.6	11	2	4.11	10 52 7.1	3.33	<i>d</i>
27	10	43	36.6	<i>e</i> + 0	6.74	<i>e</i> - 1	58.0	3.33	<i>e</i>
28	10	28	41.7	<i>f</i> - 1	6.33	<i>f</i> - 1	47.2	3.33	<i>f</i>
May 1	10	15	50.2	11	1	54.22	25 33 50.2	2.67	<i>g</i>
3	10	36	38.9	<i>h</i> + 0	51.32	<i>h</i> + 0	40.5	4.00	<i>h</i>
4	11	34	39.8	<i>i</i> - 1	46.98	<i>i</i> + 1	23.9	2.50	} 3.33 <i>i</i>
				<i>k</i> - 2	2.32	<i>k</i> - 0	7.4	2.50	
7	10	20	1.4	<i>l</i> + 0	44.34	<i>l</i> - 1	31.7	3.33	<i>l</i>
	11	1	52.7	<i>l</i> + 0	45.15	<i>l</i> + 1	41.3	3.33	} 3.75 <i>l</i>
				11	3	45.33	38 54 33.2	2.50	
9	11	50	46.1	<i>n</i> - 3	41.66	<i>n</i> - 8	39.5	3.33	} 3.75 <i>n</i>
				<i>o</i> - 4	15.35	<i>o</i> - 11	36.7	2.50	
21	13	20	18.0	<i>p</i> - 1	34.79	<i>p</i> - 0	4.9	2.50	} 3.33 <i>p</i>
				11	15	39.43	56 16 17.8	2.50	
24	11	39	8.5	11	19	20.28	58 27 11.3	3.33	<i>r</i>
29	13	2	39.1	<i>s</i> + 2	7.30	<i>s</i> + 5	26.9	2.50	} 3.33 <i>s</i>
				<i>t</i> + 0	15.71	<i>t</i> + 1	19.3	2.50	
31	12	58	26.2	11	29	48.01	62 35 50.2	3.33	<i>u</i>
June 5	12	32	46.0	11	38	31.19	64 50 0.8	2.50	<i>v</i>
6	11	49	26.1	11	40	22.99	65 13 0.8	3.33	<i>v</i>
7	11	35	2.9	11	42	19.07	65 35 34.6	2.50	<i>v</i>
8	12	13	26.0	11	44	21.38	65 58 11.8	4.00	<i>w, x, y</i>
12	12	24	47.6	11	52	51.75	67 17 52.3	2.50	<i>z</i>
19	12	26	30.6	<i>a'</i> - 1	43.97	<i>a'</i> - 13	34.8	2.50	<i>a'</i>
21	12	7	17.6	12	15	13.31	69 37 40.3	2.50	<i>b'</i>
23	11	26	14.9	12	20	47.40	70 2 17.5	2.50	<i>c'</i>
26	12	0	55.2	12	29	50.58	+ 70 36 33.1	2.50	<i>d'</i>

" Corrected for parallax by Weyer's elements.

" The number preceding a bracket, opposite to any star, is that which should

have been placed in the column "Relative Weights," had the result for the same moment from the accompanying star been rejected.

Apparent Places of Compared Stars and Authorities.

	R.A.			Decl.				Relative Weights.
	^h	^m	^s	^o	[']	["]		
<i>a</i>	11	3	35.60	+	4	19 39.6	Weisse, 42	
<i>b</i>	10	59	3.89		7	30 40.8	— 1069	2.50
<i>c</i>	11	0	25.27		7	23 18.1	— 1096	1.25
<i>d</i>		1	57.57		10	58 25.1	— 10	
<i>e</i>		1	48		14	5	Estimated	
<i>f</i>		2	55		17	8	—	
<i>g</i>		0	43.59		25	28 24.5	B.A.C. 3809	
<i>h</i>		1	26		30	33	Estimated	
<i>i</i>		4	22		32	54	—	1.67
<i>k</i>		4	37		32	55	—	1.67
<i>l</i>		3	0		38	53	—	2.50 } 2d
<i>m</i>		2	26.07		38	45 1.8	B.Z. 411, 11 ^h 1 ^m 35 ^s .08	1.25 } obs.
<i>n</i>		8	33		42	33	Estimated	2.50
<i>o</i>		9	7		42	36	—	1.25
<i>p</i>		17	14		56	16	—	1.67
<i>q</i>	11	19	41.05		56	30 2.5	A.Z. 100; 23 (<i>Ast. N.</i> No. 683)	1.67
<i>r</i>		19	5.21		58	34 32.1	— 199; 16 (<i>Ast. N.</i> 682, 683)	
<i>s</i>		24	28		61	28	Estimated	
<i>t</i>		26	19		61	32	—	1.67
<i>u</i>		29	51.63		62	28 15.9	A.Z. 184; 44 (<i>Ast. N.</i> 682)	
<i>v</i>		38	48.33		65	14 6.4	Radcliff, II. 566, & VII. 846	
			48.29			6.4	—	
			48.25			6.4	—	2.00
<i>w</i>		45	20.02		65	53 45.4	<i>Ast. Nach.</i> 682	1.00
<i>x</i>		46	13.85		66	3 51.4	—	1.00
<i>y</i>		48	37.85		66	5 13.5	— A.Z. 186; 56	
<i>z</i>	11	53	34.53		66	58 0.6	— 189; 44	
<i>a'</i>	12	11	36		69	24	Estimated	
<i>b'</i>		15	48.43		69	21 56.1	<i>Ast. Nach.</i> 682	
<i>c'</i>		23	27.01		70	2 30.2	B.A.C. 4222	
<i>d'</i>	12	26	59.71	+	70	37 29.4	— 4239	

Notes.

- April 24. This comet is brighter than Schweizer's. The latter has a nebulosity from three to four times greater than the former, and nearly concentric. Goujon's comet has a short tail in the direction opposite to the sun.
26. A small star central at 12^h 20^m 49^s Markree Sid. Time.
- May 21. Occasional gusts of wind may have affected the observation to-night.
- June 23. Excessively faint. The first two sets are little better than guesses.
26. Faint, but better shewn than on the 23d.

The stars marked A.Z. (Argelander's Zones) have been taken from the *Ast. Nach.* We have not access to the original. It is probable that some of the stars of which rough places are given, have also been observed by Professor Argelander.

CAMBRIDGE. Northumberland Equatoreal. (Prof. Challis.)

1849.	Green. M.T.			R.A.		N.P.D.		No. of Obs.	
	^h	^m	^s	^h	^m	[°]	[']	R.A.	N.P.D.
Sept. 11	12	0	38.4	18	7 48.47	28	43 30.4	8	9 Arg.Z. 125; 144
17	9	12	25.9	18	27 51.08	31	14 2.2	3	3 B.A.C. 6289
	11	0	1.4	28	3.71	15	55.4	8	8 — —
19	9	58	36.6	18	34 25.16	32	7 33.6	3	3 Arg.Z. 20; 30

“Parallax has not been applied. The places of the stars have been adopted from the authorities cited. The second series on Sept. 17 was taken by transits at two parallel bars, inclined alternately +45° and −45° to the parallel of declination. The comet was extremely faint.

LIVERPOOL. 20-foot Reflector. (Mr. Lassell.)

1849.	Greenwich M.T.			R.A. Comet.		No. Obs.	N.P.D. Comet.		No. Obs.
	^h	^m	^s	^h	^m		[°]	[']	
July 13	12	40	42.80	a + 4	49.80	6	a − 0	35.15	6
31	12	29	5.21	b − 1	57.70	6	b + 0	47.32	6
Sept. 11	13	14	2.3	c − 1	10.67	6			
		14	31.6				c − 5	52.0	6
17	9	48	15.0	d − 0	46.64	10			
		47	52.5				d + 0	43.3	10

“The observations not corrected for refraction or parallax; power 219.

	Mag.	Mean R.A.			Mean N.P.D.		
		^h	^m	^s	[°]	[']	
a	6	13	27	55.54	17	25 36.8	= Arg. Zones 200; 104
b	6	15	0	17.81	17	38 39.0	= { B.A.C. 4978, & Rad. VI.
c	6.7	18	8.9		28	50.7	1187; VII. 1019
d	8	18	28.7		31	15.6	

LIVERPOOL. Equatoreal. (Mr. Hartnup.)

1849.	Greenwich M.T.			R.A.		Log $\frac{p}{P}$	N.P.D.		Log $\frac{q}{P}$	Star B.A.C.
	^h	^m	^s	^h	^m		[°]	[']		
July 8	11	24	28.2	13	11 51.93	+9.104	17	47 9.3	−9.064	4506
		11	47 24.6		56.06	9.112		4.4	9.236	—
13	12	24	45.0	13	32 35.26	9.124	17	25 9.4	9.409	—
		12	49 16.5		41.23	9.120	24	59.1	9.503	—
Aug. 16	13	8	30.1	16	18 45.72	9.062	20	10 50.9	9.504	5628
		18	11 16 40.9		28 0.60	9.020	20	37 55.4	8.845	5514
21	11	0	38.1	16	41 58.16	8.983	21	24 15.4	8.453	5545
		11	29 46.2		42 5.46	9.008		38.3	8.965	—
Sept. 8	10	9	28.8	17	56 41.94	8.807	27	28 23.0	8.147	6224
		10	43 31.3		45.69	8.857	29	13.2	8.883	—
17	10	20	19.6	18	28 0.50	8.780	31	15 4.5	8.993	6395
		11	14 57.1		6.95	+8.844		54.7	−9.308	—

“The observations are corrected for refraction. The corrections to be applied for parallax in time and arc are represented by p and q . P is the equatoreal horizontal parallax. The observations very good, with the exception of the 16th Aug. The stellar nucleus was visible in this telescope on the 21st August; the light pretty equally diffused around the nucleus.”